

Amendments to the Specification:

Please delete paragraph [0059], which begins with "Figs. 15A through 3084D are schematic diagrams..." and paragraph [0060], which begins with "Figs. 3085 through 50457 are schematic diagrams...".

Please replace paragraph [0056] with the following amended paragraph:

Fig. 13C is a picture of laboratory results, which confirm endogenous –expression of bioinformatically detected novel gene GAM25 of Fig. ~~15A~~13A;

Please replace paragraph [0086] with the following amended paragraph:

The present invention discloses 3070 novel viral genes of the VGAM group of genes, which have been detected bioinformatically, as described hereinbelow with reference to Tables 1 and 2~~Figs. 15 through 3084~~. Laboratory confirmation of 4 genes of the GAM group of genes is described hereinbelow with reference to Figs. 12 through 14.

Please replace paragraph [0134] with the following amended paragraph:

The present invention discloses 50443 novel viral genes of the GR group of genes, which have been detected bioinformatically, as described hereinbelow with reference to Tables 1 and 2~~Figs. 15 through 50457~~. Laboratory confirmation of 3 genes of the GR group of genes is described hereinbelow with reference to Figs. 9A through 14.

Please replace paragraph [0137] with the following amended paragraph:

The present invention discloses a first plurality of novel genes referred to here as VGAM genes, and a second plurality of operon-like genes referred to here as GR genes, each of the GR genes encoding a plurality of VGAM genes. The present invention further discloses a very large number of known target-genes, which are bound by, and the expression of which is modulated by each of the novel genes of the present invention. Published scientific data referenced by the present invention provides specific, substantial, and credible evidence that the abovementioned target genes modulated by novel genes of the present invention, are associated with various diseases. Specific novel genes of the present invention, target genes thereof and diseases associated therewith, are described hereinbelow with reference to Tables 1 and 2~~Figs. 15 through 3084~~. It is therefore appreciated that a function of VGAM genes and GR genes of the present invention is modulation of expression of target genes related to known diseases, and that therefore utilities of novel genes of the present invention include diagnosis and treatment of the abovementioned diseases. Fig. 10 describes various types of diagnostic and therapeutic utilities of novel genes of the present invention.